

19. Explain the chemistry behind the cleansing actions of soaps and detergents.
20. What are ceramics? Give the general properties of ceramics.
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NOVEMBER/DECEMBER 2025

**GOCH35A/DOCH35A — INDUSTRIAL
CHEMISTRY II**

Time : Three hours

Maximum : 75 marks



SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define solar cell.
2. Give two examples of primary and secondary cells.
3. Write the chemical formula of dichlorodiphenyltrichloroethane (DDT).
4. What are fungicides? Give an example.
5. Give the two risks linked with water gas.
6. Define refining of petroleum.
7. What are varnishes?.
8. What is the role of the dispersion medium in paints?

9. What do you mean by setting of cement?
10. Compare the wet process and dry process in the manufacture of cement.

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

11. (a) Discuss the use of perchlorates in the chemical industry.

Or

- (b) Explain the operation of a lead-acid battery using reactions.

12. (a) Mention the merits and demerits of parathion.

Or

- (b) Write a short note on the environmental impact of herbicides.

13. (a) Describe the properties and applications of LPG.

Or

- (b) Explain the process of oil gas production:

14. (a) Explain the preparation process of toilet and washing soaps.

Or

- (b) Discuss the role of binder pigments in paints.

15. (a) Give a brief account of major cement industries in India.

Or

- (b) What is the function of feldspar in ceramics.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Give a detailed explanation of the electrochemical cell method used to produce caustic soda and chlorine.
17. Write the biological target and mechanism for insecticides.
18. Explain the large-scale production, storage, risks, and applications of water and coal gas.

